

In the Specification

Please amend the paragraph beginning at page 5, line 16:

Brief Description of the Drawings

01 The foregoing features of the invention will be more readily understood by reference to the following detailed description, taken with reference to the accompanying drawings, in which:

Fig. 1 is a diagram of a prior art x-ray fluorescence analyzer which uses three radiation sources and provides a changing mechanism for the sources;

Fig. 2 is a diagram of one embodiment of an apparatus for determining the composition of an alloy or precious metal that uses only one radiation source.

Fig. 2A is a diagram in which the radiation source is ring-shaped.

Fig. 3 is a flow chart of the steps used to determine the composition of a material using the full spectrum of Americium.

Fig. 4 is a flow chart of the steps used to remove the Rayleigh lines from the fluoresced spectrum of the material.

Fig. 5 is a graph showing the Rayleigh scattering for various materials;

Fig. 6 is a graph showing a fluoresced spectrum with the background Rayleigh and Compton scattering removed; and

Fig. 7 is a flow chart of the steps used to remove the Compton Scattering lines from the fluoresced spectrum of the material.
